# INVESTIGATION BY THE DEPARTMENT OF PUBLIC UTILITIES ON ITS OWN MOTION INTO THE PREPARATION AND RESPONSE OF FITCHBURG GAS & ELECTRIC COMPANY D/B/A UNITIL TO THE DECEMBER 12, 2008 WINTER STORM

D.P.U. 09-01-A

**Prepared Direct Testimony of** 

Barbara R. Alexander On Behalf of Attorney General of the Commonwealth of Massachusetts

BEFORE THE DEPARTMENT OF PUBLIC UTILITIES

March 25, 2009

#### TABLE OF CONTENTS

I.	INTRODUCTION AND SUMMARY	4
II.	UNITIL FAILED TO INVEST IN AN OUTAGE MANAGEMENT SYSTEM	9
III.	UNITIL FAILED TO COMMUNICATE WITH ITS CUSTOMERS AND PUBLIC OFFICIALS IN AN ACCURATE AND TIMELY MANNER	13
IV.	UNITIL'S EMERGENCY RESTORATION PLAN DOES NOT PROPERLY REFLECT THE NEED FOR RESPONSE TO AN OUTAGE OF SEVERE MAGNITUDE, SUCH AS THE DECEMBER 2008 WINTER STORM	21
V.	PRELIMINARY RECOMMENDATIONS	23

A.

- Q. PLEASE STATE YOUR NAME, ADDRESS, AND IDENTIFY FOR WHOM YOU ARE PRESENTING TESTIMONY IN THIS PROCEEDING.
- A. My name is Barbara R. Alexander. I use the title of Consumer Affairs Consultant. I have an office at 83 Wedgewood Dr., Winthrop, ME 04364. I am appearing as a witness on behalf of the Attorney General of the Commonwealth of Massachusetts (Attorney General).

#### Q. PLEASE PROVIDE YOUR BACKGROUND AND QUALIFICATIONS.

I opened my consulting practice in March 1996, after nearly ten years as the Director of the Consumer Assistance Division of the Maine Public Utilities Commission. While there, I managed the resolution of informal customer complaints for electric, gas, telephone, and water utility services, and testified as an expert witness on consumer protection, customer service and low-income issues in rate cases and other investigations before the Commission. My current consulting practice focuses on regulatory and statutory policies concerning consumer protection, service quality and reliability of service, customer service and low-income issues associated with both regulated utilities and retail competition markets. My recent clients include the state public advocate offices in Pennsylvania, Washington, Maryland, Ohio, and Maine, as well as AARP state offices (Montana, New Jersey, Maine, Ohio, Virginia, Maryland, and the District of Columbia). I have prepared testimony on behalf of my clients before state utility regulatory commissions in Pennsylvania, Maine, Vermont, California, New Jersey, Maryland, Illinois, Colorado, West Virginia, Iowa, Kansas, Texas, Wisconsin, Montana, Washington, and the Canadian Radio-Television and Telecommunications Commission. Testimony of Barbara R. Alexander

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I am also an attorney, and a graduate of the University of Michigan (1968) and the University of Maine School of Law (1976).

I attach my resume with a list of my publications and testimony as Exhibit No. 1.

#### Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

The Department of Public Utilities (Department or DPU) opened this investigation on January 7, 2009 to review how the four electric distribution companies prepared for and implemented emergency restoration plans for the Winter Storm 2008 (the winter storm that began on December 11, 2008). The Department's order stated that the purpose of the investigation "is to evaluate the adequacy of the Electric Companies' storm response/emergency restoration plans, examine each company's implementation of its plan, and identify improvements to company activities to mitigate the impact of future storm-related outages." [Order at 1] The Department required the utilities to file reports on this Storm that would address a variety of topics by February 23, 2009. Subsequently, the Department established, a more formal process of discovery, testimony, and hearing for this investigation. On March 3, 2009, the Hearing Examiner established a schedule calling for formal testimony and hearings for that portion of this investigation relating to the performance of Fitchburg Gas and Electric Co. (Unitil). As a result, my testimony is focused on the performance of Unitil, but my testimony includes some comments and references to the reports filed by the other distribution companies (Western Massachusetts Electric or WMECO, NSTAR Electric, and Massachusetts Electric Co. d/b/a National Grid).

My testimony will not review every aspect of Unitil's storm response. Rather, my testimony will focus on a high level analysis of whether the company's preparation and response to the Winter Storm reflected "best practices," particularly with respect to its outage management planning, its communications with the public and local officials, the operation of its customer call center, and whether or not Unitil has in place appropriate outage management technologies. Dr. Richard Brown of Quanta Group, on behalf of the Attorney General, will address Unitil's management of its crew needs, damage assessment procedures, vegetation management practices, and the implementation of its outage restoration policies.

### Q. PLEASE IDENTIFY THE MATERIALS YOU HAVE REVIEWED IN PREPARING YOUR TESTIMONY.

A. I have reviewed the reports and attachments filed by all the utilities in this proceeding. I have read the transcripts of the public hearings held in the Unitil service territory on January 27<sup>th</sup> in Fitchburg and February 3<sup>rd</sup> in Lunenburg. Finally, I reviewed the data responses that were provided in time to evaluate and include in this testimony. I will provide a reference to any other documents that I will rely on for factual statements or conclusions in my testimony. It is my understanding that I will be able to finalize my

<sup>&</sup>lt;sup>1</sup> In his opening remarks at this hearing, Chairman Hibbard stated, "This hearing is a critical component of our investigation. It is an opportunity for all of you to record your experiences and observations on the record so that we may consider them for our review." Public Hearing (2/27/09) Transcript at 6.

conclusions and recommendations in my Rebuttal Testimony, particularly with respect to Unitil's forthcoming assessment on the Winter Storm by its own consultant that will be filed on March 25, 2009.

#### I. INTRODUCTION AND SUMMARY

- Q. PROVIDE AN OVERVIEW OF THE WINTER STORM AT ISSUE IN THIS INVESTIGATION.
- A. An ice storm began late on December 11, 2008. As a result, over 375,000 electric customers in Massachusetts were without power, many without heat. Of that number 28,000 Massachusetts homes in Unitil's service territory, or virtually 100 percent of its Massachusetts customers, lost power. One in five of those customers were reportedly without power for at least a week while over 1,000 homes had no electricity for 12 days or more. Unitil was not able to complete its restoration of power to all its customers until December 24, 2008. The following table compares the volume of outages and restoration progress by Unitil and the other three Massachusetts distribution companies as reported in the February 23 filings with the Department:

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### TABLE 1: OUTAGES AND RESTORATION FOR MASSACHUSETTS ELECTRIC COMPANIES

Utility	# customers affected	Date Restoration
		completed
Unitil	28,500	December 24
WMECO	22,000	December 20
NSTAR	5,000 (12/12	December 17
	ice storm) and	(ice storm) and
	40,000 (12/19	December 22
	snow storm)	(snow storm)
National Grid	294,000	December 19

### Q. HOW IS YOUR DISCUSSION OF UNITIL'S STORM RESTORATION ACTIVITIES ORGANIZED?

A. I have organized my testimony based on the issues identified by the Commission in its

Order opening this investigation and the "best practices" in storm restoration practices. I

have identified these "best practices" based on my review of major storm restoration

events in several states, most recently in Washington where KEMA submitted a report of

its analysis of Puget Sound Energy's storm restoration actions for a major winter storm

that occurred in December 2006.<sup>2</sup> In addition to the KEMA report submitted in

Washington, other similar reports also reflect the themes and best practices that I will

have identified in my testimony, including the Maine Public Utility Commission's review

<sup>&</sup>lt;sup>2</sup> KEMA, <u>Puget Sound Energy Storm Restoration and Readiness</u> Review (July 2, 2007). The public version of this Report was submitted to the Washington Utilities and Transportation Commission by Puget Sound Energy as part of the Commission's review of PSE's request for storm recovery costs in a base rate case. *See* Docket No. UE-072300

http://www.wutc.wa.gov/rms2.nsf/177d98baa5918c7388256a550064a61e/d5f1e474115cc0c5882573a7007e3382!OpenDocument; *see also* associated documents available on the WUTC website: http://www.wutc.wa.gov/.

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of the actions of electric utilities in Maine in response to an ice storm that occurred in January 1998<sup>3</sup>, an investigation of outage restoration practices of Pepco by the District of Columbia Public Service Commission concerning Hurricane Isabel in 2004<sup>4</sup>, an investigation by the Virginia Corporation Commission of the restoration actions by Dominion Power concerning Hurricane Isabel in 2004<sup>5</sup>, and a report by the Office of Regulatory Staff in South Carolina on the storm recovery actions by Duke Energy with respect to a major ice storm that occurred in December 2005.<sup>6</sup>

- Q. DO YOU HAVE ANY GENERAL OR PRELIMINARY COMMENTS WITH

  RESPECT TO YOUR REVIEW OF UNITIL'S PERFORMANCE IN LIGHT OF

  BEST PRACTICES FOR OUTAGE PLANNING AND RESTORATION?
- A. In general, what Unitil's customers experienced, and the failures that I will document in Unitil's response to this Winter Storm, reflect issues and concerns that have been documented in other state investigations of major utility storm restoration events. In other words, my review of Unitil's performance reflects the same lack of investment in

<sup>&</sup>lt;sup>3</sup> Maine Public Utilities Commission, <u>Inquiry Into the Response by Public Utilities in Maine to the January 1998 Ice Storm</u>, Order ,Docket No. 98-026 (December 29, 1998)

<sup>&</sup>lt;sup>4</sup> Public Service Commission of the District of Columbia, <u>In the Matter of the Investigation of Potomac Electric Power Co. Regarding Interruption to Electric Energy Service</u>, Order, Formal Case No. 982 (Order No. 13381, September 15, 2004).

<sup>&</sup>lt;sup>5</sup> Special Report of the Division of Energy Regulation, Virginia State Corporation Commission, Preparation For and Response to Hurricane Isabel by Virginia's Electric Utilities, September 20, 2004.

<sup>&</sup>lt;sup>6</sup> Office of Regulatory Staff. <u>Review of Duke Energy Carolinas December 2005 Ice Storm</u> Recovery, January 31, 2007.

modern Outage Management Systems, the lack of accurate and timely communication with its customers about restoration activities and estimates, the inability to properly organize the massive influx of assistance required to accomplish a reasonably timed restoration, and the concern about the lack of communications with and interactions with municipal and other state and local officials that are repeated themes in other state investigations of this type. It is clear that Unitil and its management were not aware of or failed to make themselves aware of these best practices and lessons learned elsewhere. If they were aware of these repeated themes in other state investigations concerning utility responses to major storms, they certainly failed to follow the recommendations that permeate these reports dating back 10 or more years. It is unfortunate and unreasonable for Unitil to be excused for these failures. While Unitil is a relatively small utility, it should be held to the same standards as other publicly regulated distribution companies in Massachusetts. If not able to actually duplicate every practice or investment that larger utilities can undertake, the fact that Unitil repeated the same mistakes that have been documented elsewhere is a significant concern. On March 27, 2002, the Department of Telecommunications and Energy issued an Order pursuant to an investigation on its own motion into the service quality of Fitchburg Gas and Electric Light Company, which raised concern about the Company's ability to effectively respond to a major event. D.T.E. 01-67, Investigation by the Department of Telecommunications and Energy on its Own Motion into the Service Quality of Fitchburg Gas and Electric Light Company, 11-12 (March 27, 2002). Furthermore, based on my review of how the other Massachusetts utilities responded to this Winter Storm, there is a significant gap between the practices in effect in these other utilities and those followed by Unitil in several key areas.

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In my opinion, Unitil should have been more aware of what could go "wrong" and should have been able to better handle its communications about the severity of the storm, the length of outage restoration, and communicate more informatively and effectively with its customers and public officials.

- Q. DO YOUR CONCERNS AND CRITICISMS TAKE INTO ACCOUNT THE SEVERITY OF THE DAMAGE INCURRED IN UNITIL'S DISTRIBUTION SYSTEM DUE TO THIS STORM?
  - Yes. I agree that this Winter Storm compromised Unitil's entire distribution and transmission system. I agree that the severity of the damage that Unitil incurred was far greater as a percentage of its total system than other Massachusetts utilities. However, the fact that Unitil is a relatively small utility is an even stronger reason to question the lack of planning and execution of a proper plan since the fact that a major ice storm could result in this type of major disaster was obviously foreseeable by Unitil. Unlike other Massachusetts utilities, Unitil could not rely on shifting resources from one part of its service territory to another because its multi-company service territory is relatively small and therefore susceptible to all being impacted by a single event. Therefore, Unitil should be held accountable for the failure to properly plan and invest in systems and contingency events to respond to this type of event. Furthermore, much of Unitil's failure in its restoration activities relate to decisions and actions that it could and should have implemented based on an analysis of similar events in Massachusetts and elsewhere concerning communications with customers, interactions and communications with local

and state officials, and the impact of the lack of a modern Outage Management System (OMS).

#### Q. ARE YOU SUGGESTING THAT THE UTILITY FIELD WORKERS AND CALL CENTER REPRESENTATIVES DID NOT PERFORM THEIR JOBS PROPERLY?

No. I have no reason to believe that the field crews and customer call center representatives were not trying hard to assist customers. I am confident that these employees worked long hours and endured stress and hardships in trying to restore electricity during this two-week period. However, the failures I have identified in this testimony are properly the fault of management and the failure to implement appropriate technology and follow best practices identified in similar storm events at other utilities over the last 10 years.

#### II. UNITIL FAILED TO INVEST IN AN OUTAGE MANAGEMENT **SYSTEM**

PLEASE DESRIBE THE MANNER IN WHICH UNITIL TRACKS AND Q. RESPONDS TO OUTAGES.

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Unitil does not have an Outage Management System (OMS).<sup>7</sup> As a result, Unitil cannot gather outage information and project the status of its transmission and distribution system in a "real time" environment. While Unitil does have some components that will be useful to integrate with an OMS (such as a web-based Outage Reporting System, and a Geographic Information System (GIS)), the lack of an OMS probably hampered Unitil's ability to "see" the full extent of this outage and the progress of restoration in a timely manner. The fact that Unitil has not invested in a modern OMS may have contributed in part to the lack of information available to many company employees concerning the nature of the damages incurred and the status of restoration activities through this extended outage. Furthermore, the lack of an integrated OMS meant that Unitil's customer service representatives also did not have "real time" access to the status of the system and the status of restoration activities. A properly designed OMS integrates the various key systems, such as the customer information database, the call center menus and responses, the work management system, and the mobile workforce management system. The lack of OMS contributed to Unitil's inability to handle the field data volume that this storm generated and translate that data into usable information. Furthermore, Unitil does not have automated technology to "roll up" outage and restoration information from the field to the Emergency Operations Center. The damage

<sup>&</sup>lt;sup>7</sup> Unitil confirmed the lack of OMS in its response to AG-I-32 and stated that it had been evaluating the investment in OMS since 2006. In addition, Unitil filed a report with the Department on August 28, 2008 in which it described the capabilities of its Advanced Metering Infrastructure (AMI) system and stated that it did not have an OMS and that an OMS "will provide a means to use real-time information to manage outage related events in a more effective manner and contribute to reducing the outage restoration process." Report on the Implementation Plan for the Next Phase of the AMI Project, D.P.U. 07-71 (August 28, 2008), at 22.

## Q. DOESN'T UNITIL HAVE AN ADVANCED METERING SYSTEM (AMI) WITH TWO-WAY COMMUNICATION CAPABILITY WITH ALL ITS CUSTOMER METERS?

A. Yes. However, this system merely tells Unitil that the meter is either on or off. While Unitil is able to pinpoint the location of the outages by meter (because each meter has a specific GPS address), it is currently unable to incorporate this information into a real-time "picture" of the status of all of its distribution and transmission facilities.

Furthermore, the communication system Unitil has installed is a very low powered and slow system that does not operate well with widespread outages and downed communication lines. In fact, circuit interruptions also interrupt the ability to communicate with AMI and Unitil has confirmed that AMI alone is not a sufficient outage information system.8

### Q. IS OMS RECOGNIZED AS A BEST PRACTICE FOR OUTAGE RESTORATION BY UTILITIES?

A. Yes. Based on my experience in reliability investigations and rulemakings, I know that

<sup>&</sup>lt;sup>8</sup> Unitil Response to AG-I-48.

all of the Maine, New Jersey<sup>9</sup> and Pennsylvania electric utilities of any significant size installed OMS several years ago, most in the 2000-2002 period. In Washington, Avista installed an OMS that is built on GIS after the 1996 ice storm that caused substantial damage to Washington utilities. In its review of Puget Sound Energy's response to a major storm in December 2006, KEMA identified the installation of an OMS as a "best practice" that hampered Puget Sound Energy's restoration efforts.<sup>10</sup>

In its review of Pepco's response to Hurricane Isabel in 2003, the Public Service Commission of the District of Columbia stated that OMS..."is the primary tool used to receive customer trouble reports, analyze reports and provide summary reports for crew dispatching, and its mobilizing all other information system" and that OMS "...is the standard approach to storm restoration through the utility industry." The Commission also found that, "OMS is critical and central to PEPCO's Storm Response Plan and its shortcomings during the August 2003 storms and Hurricane Isabel had a significant impact on Pepco's restoration performance."

Furthermore, there is a great deal of research and data available on the benefits of OMS. A search of the Edison Electric Institute website for articles and presentations on OMS resulted in 54 documents, many of which are presentations by utility executives and consultants at EEI-sponsored conferences that describe utility OMS systems and

<sup>&</sup>lt;sup>9</sup> The New Jersey Board of Public Utilities required that all electric utilities install OMS no later than 2000. See New Jersey Reliability Rules, N.J.A.C. § **14:5-8.11.** 

<sup>&</sup>lt;sup>10</sup> KEMA Report at 10-7.

<sup>&</sup>lt;sup>11</sup> Order, District of Columbia PSC, September 25, 2004, page 31.

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their benefits in use for many years. 12 As a result, the fact that Unitil had been "studying" the need for OMS since 2006, but had not invested in such a basic outage management tool to improve its reliability performance is disturbing.

Finally, it is important to note that the other three Massachusetts distribution companies all relied on their OMS to assist them in restoration planning and implementation. It may not be a coincidence that all these three distribution companies accomplished their restoration of power significantly faster than Unitil. National Grid relied on its OMS to map and plan its outage restoration plans for this Winter Storm as noted in its February 23, 2009 report to the Department. [See page 31] NSTAR has also installed OMS and described how this system assisted its storm restoration efforts on pages 15-16 of their Report to the Department. WMECO relied on its OMS and used mobile communications trailers to provide connectivity when circuits were down at remote rural satellite locations. [WMECO Report at 5] In fact, WMECO utilized OMS to allocate line and tree crews based on outage intelligence pertaining to the extent and type of damage, number of trouble spots, and number of customers without service. [WMECO Report at 9]

#### III. UNITIL FAILED TO COMMUNICATE WITH ITS CUSTOMERS AND PUBLIC OFFICIALS IN AN ACCURATE AND TIMELY **MANNER**

<sup>&</sup>lt;sup>12</sup> See, http://www.eei.org/search/index.htm?search=OMS.

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### Q. PLEASE DESCRIBE THE MANNER IN WHICH UNITIL COMMUNICATED WITH ITS CUSTOMERS ABOUT THE OUTAGE RESTORATION PROCESS.

Unitil sent vague and contradictory messages to the public and its customers. Unitil's communications with its customers repeatedly failed to provide accurate or timely restoration information and the information that was provided was often proved incorrect within a day. This suggests that the Company did not have an accurate estimate of either the scope of the damage or, consequently, the time needed to restore service. The customer call center was frequently provided with overly optimistic restoration information from Unitil management. During the first several days after December 12, 2008, Unitil told its customers and the public that power would be restored in a few days. In the morning of December 13, 2008, the customer call center representatives were informed, "We hope to have many/most of our customers on by the end of the day tomorrow."13 Later that same day, the representatives were told, "I realize that you all once told customers by Sunday and then Monday and then Tuesday for full restoration but the best is to tell customers that will still be several days, perhaps Wednesday or even Thursday."<sup>14</sup> On the 14<sup>th</sup> Mr. Lambert informed the call center that "40 or so crews are all out and about today-like they were yesterday" and that the damage in Fitchburg was so bad that crews would be working there "all week long." He also specifically told the

<sup>&</sup>lt;sup>13</sup> Response to AG-I-62, Attachment 2, page 6 of 38, Email communication from Mark Lambert, Director, Customer Services to "Everyone CSC" sent at 8:53 AM on December 13, 2008.

<sup>&</sup>lt;sup>14</sup> Response to AG-I-62, Attachment 2, page 10 of 38, Email communication from Mark Lambert, Director, Customer Services to "Everyone CSC" sent at 4:00 PM on December 13, 2008.

representatives not to inform customers "on saying any type of days." On the 15<sup>th</sup>, Mr. Lambert informed the call center that he had recorded the IVR message to state that, "...restoration may not be completed until this coming weekend."

The IVR message to its Massachusetts customers stated on December 13<sup>th</sup> that it would take "days" to restore power to all customers. On December 14<sup>th</sup> and 15<sup>th</sup> customers were told that Unitil could not provide specific estimated restoration times, but that "restoration efforts would continue for several days in the hard hit areas" (which were not identified). On December 17<sup>th</sup> customers were told, "Restoration of all primary circuits in Massachusetts is expected on Thursday (December 18<sup>th</sup>) in Fitchburg, Friday in Townsend and Lunenburg (December 19<sup>th</sup>) and on the weekend in Ashby (December 20-21<sup>st</sup>), subject to weather." On December 19<sup>th</sup>, the public was told that "all major lines" in Fitchburg would be in service by "tomorrow morning" (December 20<sup>th</sup>), but that "Townsend, Lunenberg and Ashby, the hardest hit areas, are expected to reach a similar point in the restoration one day later."

None of these messages proved to be accurate. The attempt to reassure customers that "power would be restored" generally within "days" only contributed to customer frustration and anger as the days mounted and no significant progress was made. It also resulted in "incorrectly informed" planning decisions by Unitil customers that delayed

<sup>&</sup>lt;sup>15</sup> Response to AG-I-62, Attachment 2, page 12 of 38, Email communication from Mark Lambert, Director, Customer Services to "Everyone CSC" sent at 9:29 AM on December 14, 2008

<sup>&</sup>lt;sup>16</sup> Response to AG-I-62, Attachment 2, page 15 of 38--Email communication from Mark Lambert, Director, Customer Services to "Everyone CSC" sent at 4:41 PM on Monday, December 15, 2008.

<sup>&</sup>lt;sup>17</sup> From the IVR messages provided in response to AG-I-62, Attachment 1.

installation of generators and/or performance of preventive maintenance to forestall damage to household systems, e.g., draining heat pipes to avoid freezing. In fact, there was no significant system wide restoration progress until December 20-22 when the additional crews and supervisory support arrived from National Grid.

Furthermore, the messages were never specific and failed to inform customers of what areas were "on" and where crews would be working or what degree of outage restoration had been completed in the various towns. Finally, the messages were overly technical, using terms such as "primary circuits," which is not a term that is meaningful to individual customers.

# Q. ARE YOU AWARE OF ADDITIONAL CONCERNS HELD BY CUSTOMERS IN THE AFTERMATH OF THE STORM CONCERNING THE ISSUANCE OF BILLS AFTER THE EXTENDED OUTAGES?

- A. Yes. Customers at the public hearings expressed concern over the Company's perceived lack of sensitivity to customers by putting out estimated bills that appear to be based on or were purported to be based on December 2007 usage. These bills apparently did not reflect the fact that many customers had no usage for one or more weeks due to the Storm. In my opinion, the Company should have altered its standard routine in issuing an estimated bill following a failure to obtain an actual reading in this particular situation.
- Q. DID UNITIL'S COMMUNICATIONS WITH ITS CUSTOMERS REFLECT BEST PRACTICES IN THESE SITUATIONS?

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No. The large-scale storm reports that I referenced from Washington, the District of Columbia, Virginia, and Maine all discussed the need for frequent, accurate, and timely communications with customers in the event of a major storm that requires a lengthy restoration process. Unitil "violated" all the best practice recommendations reflected in these reports by failing to communicate accurate information, by constantly changing the message about when restoration would be accomplished, by failing to include town and area specific information in most messages, by using technical terms, and by not interacting frequently with the public via radio and television. With regard to the latter category of communications, Unitil's reliance on "canned" Public Service Announcements was particularly frustrating. One of the most praised actions of Central Maine Power Company during the devastating ice storm in January 1998 was the effort by the CMP President to appear several times a day on live radio and television appearances to provide updates and information. Even if the only information was that specific times for restoration was not available, the constant repetition of how the restoration process was organized and what overall progress was being made was a welcome and reassuring messages for the thousands of Maine families, including myself, who were without power for over a week.

Q. DID UNITIL OPERATE ITS CUSTOMER CALL CENTER IN A MANNER
THAT WOULD ALLOW CUSTOMERS TO COMMUNICATE TO AND
RECEIVE INFORMATION ABOUT OUTAGE RESTORATION?

A. No. Unitil did not have sufficient trunk lines or customer service personnel available to handle the vast volume of customer calls seeking information about the outage and the Testimony of Barbara R. Alexander On Behalf of the Attorney General of Massachusetts

Docket No. D.P.U. 09-01-A

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restoration progress. While Unitil significantly increased the number of personnel available to answer calls, the capacity of the calling system was swamped. 18 Also, as previously noted, the information provided on the IVR system did not provide customers with any town or location specific restoration information. As a result, the IVR messages were essentially useless and contributed to the volume of customers seeking to speak with a customer service representative. Customers had to make repeated calls because they could not obtain useful information and it appears that the customer service representatives did not in fact have outage restoration information that was specific to towns, neighborhoods, or any reliable estimates concerning the length of time until power would be restored.

#### Q. HOW DID UNITIL COMMUNICATE WITH PUBLIC OFFICIALS AND TOWN **EMERGENCY OFFICES?**

According to many public officials who spoke at the public hearings on January 27 and Α. February 3, 2009, not very well. According to Senator Flanagan who spoke at the hearings on January 27, 2009, she was at the Emergency Operations Center at Lunenburg and the Unitil individual embedded in that office was not able to obtain relevant or up to date information on restoration activities.<sup>19</sup> State Representative Benson described her

<sup>&</sup>lt;sup>18</sup> There were 75 hours during which more calls were received than could be handled at the Call Center. On December 17, one of the trunk lines was out of service for 24 hours, reducing even more the capacity of the Call Center. Subsequent to the storm, Unitil added 48 additional telephone lines, for a total of 120 lines. See Unitil's Report at 72-73.

<sup>&</sup>lt;sup>19</sup> Transcript of Public Hearing on January 27, 2009, at 20-27.

attempts to obtain updated information on outage restoration in the various towns from the Unitil COO without success after repeated attempts to obtain such information. She also testified that the Unitil crews or those from other utilities did not start rolling into Lunnenberg until Saturday, December 20, 2008.<sup>20</sup>

In fact, Unitil did not send employees to any municipal offices initially, but relied on telephone communications or sending an employee to attend specific events, such as press conferences. Eventually, after the onset of the storm and long after it was clear that a lengthy restoration process would be required, Unitil embedded staff at the Fitchburg and Lunenburg EOC.<sup>21</sup>

Unitil's delay in direct communications with local Emergency Operations Centers contrasts with that of NSTAR, who sent restoration officials to local offices on the onset of the outages and maintained direct phone lines with local police and fire departments.

[NSTAR Report at 10]

National Grid, who saw 294,000 customers without power at the onset of the Winter Storm, activated a Municipal Room Phone Line, which allowed for direct communications with local emergency management officials during the restoration process and hosted conference calls with public officials on a daily basis. According to National Grid, the "calls included a high level overview of available resources, identify the problem areas, and provided an estimate as to when power would be restored." On the third day of the restoration effort, the utility initiated face-to-face meetings with

<sup>&</sup>lt;sup>20</sup> Transcript of Public Hearing on February 3, 2009, at 18-23.

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communities with large number of customer outages. In these visits a detailed account of the nature of the distribution and transmission system serving that town was provided, a damage assessment, where crews were working, workforce availability and the estimated time of restoration. [National Grid Report at 40-42]

WMECO expanded their initial outreach to municipal officials and worked "oneon-one with officials in the hardest hit areas to reassess and validate town needs and identify restoration priorities." WMECO also used town facilities as sub-satellite stations and emergency command centers. [WMECO Report at 17-18]

### Q. DID UNITIL PROPERLY COMMUNICATE WITH LIFE SUPPORT CUSTOMERS OR THOSE WITH SPECIAL NEEDS?

A. No. Unitil did not reach out to customers who had provided information that documented their need for essential electricity service for medical needs. Unitil failed to take any affirmative action prior to the storm. Even though Unitil knew that outages were widespread and that all of its critical care customers were probably adversely impacted, Unitil only attempted to call the 11 such customers who reported an outage between December 11 and 13. Unitil did not even attempt to contact the other 56 critical care or Life Support customers during the lengthy restoration process.<sup>22</sup>

<sup>&</sup>lt;sup>21</sup> Unitil Report at 76. Unitil correctly identified the defects in this experience in their Report at page 77.

<sup>&</sup>lt;sup>22</sup> Unitil Response to AG-I-13.

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Unitil's inaction contrasts starkly with the affirmative outreach implemented by other Massachusetts distribution companies. National Grid initiated an outbound call to its Life Support customers prior to the onset of predicted outages. [National Grid Report at 10] WMECO completed an outbound call to all customers on its Medical Registry on the afternoon of December 11 to alert customers to the potential for a lengthy outage. [WMECO Report at 18]

#### IV. UNITIL'S EMERGENCY RESTORATION PLAN DOES NOT PROPERLY REFLECT THE NEED FOR RESPONSE TO AN OUTAGE OF SEVERE MAGNITUDE, SUCH AS THE DECEMBER 2008 WINTER STORM

#### WHAT ASSUMPTIONS DID UNITIL MAKE WITH RESPECT TO ITS ABILITY Q. TO OBTAIN CREWS FROM OTHER UTILITIES IN THE EVENT OF A SIGNIFICANT OR MAJOR STORM?

Until's Emergency Management Plan relies entirely on its ability to obtain "foreign" crews from other utilities to respond to a storm with significant and widespread damage. Unitil started to obtain such assistance once it became clear on December 11, 2008 that a significant ice storm was likely to occur. However, Unitil did not obtain crews from other utilities in sufficient volume until December 19, 2008 when National Grid provided the necessary additional crews and supervisory assistance to coordinate the large volume of work crews seeking to handle the restoration tasks. According to Unitil, it was only able to assign three Line Crews (working on line restoration) employed directly by Unitil and three additional Contractor Line Crews for the period of December 11 until

December 19, 2008. With respect to Tree Crews (to trim downed trees), Unitil had only two such crews regularly assigned to its Massachusetts operations throughout the restoration process and again had to rely on Tree Crews acquired from other resources.<sup>23</sup> Unitil had insufficient Line and Tree Crews working to restore power throughout the first week of the restoration process. In part, Unitil experienced bad luck when the crews that were promised through Dayton Power and Light in Ohio cancelled their promised assistance. It is not clear whether Unitil called on the necessary assistance from state officials in replacing the loss of these promised crews promptly or whether there was still a failure to properly comprehend the nature of the damage and the resources that would be necessary to restore power. The public officials who appeared at the public hearings stated that it was not until they intervened with state officials, that additional efforts to obtain assistance from National Grid were successful.<sup>24</sup> Whether or not this is accurate, the most important fact is that Unitil failed to establish contingency planning to assure itself of sufficient crews to handle a major storm and system-wide restoration event such as the December 2008 Winter Storm. Finally, it is important to note that even if the promised crews from Dayton Power and Light had arrived, they would have been insufficient to address the restoration needs. In fact, significant progress toward restoration was not made until December 19 when a total of 410 crews were deployed.

<sup>&</sup>lt;sup>23</sup> Unitil Response to DPU-I-8, Table 6.

<sup>&</sup>lt;sup>24</sup> Statement by Rep. Robert Rice, Public Hearing, January 27, 2009, Transcript at 38.

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I acknowledge that Unitil would never have sufficient crews under its direct command for a restoration project of this size and scope. I also acknowledge that it is standard practice for utilities to coordinate and share resources under several mutual aid protocols, all of which Unitil sought to use during the first week of the restoration process. However, my primary concern is that because Unitil is a relatively small utility in terms of permanently employed Line and Tree Crews, it is all the more reason to have back up plans in place to address significant restoration efforts of the kind that occurred in December 2008. Among the options that Unitil should have considered in its Emergency Management Plan and then implemented include (1) contracting with "foreign" crews to be "on call" under certain conditions and payment of fees to assure that availability; (2) more promptly recognizing the scope and scale of this disaster by clearly defining resource needs and then interacting with state and public officials to inform and make clear what resources will be required at an earlier stage of restoration compared to the actions Unitil undertook in December 2008.

#### V. PRELIMINARY RECOMMENDATIONS

#### Q. WHY ARE YOUR RECOMMENDATIONS PRELIMINARY IN NATURE?

My recommendations are preliminary because Unitil will supplement this record with additional testimony and an assessment of its restoration actions by a consultant and Company managers, all of which will be submitted by March 25, 2008. As a result, I

reserve the right to alter my recommendations based on a review of these forthcoming materials in my Rebuttal Testimony.

#### Q. PLEASE SUMMARIZE YOUR PRELIMINARY RECOMMENDATIONS.

- A. First, I recommend that the Department make findings about the adequacy of Unitil's restoration planning and the implementation of its restoration activities for this Winter Storm. It is insufficient to merely look ahead and focus on reforms for future major storm and restoration planning. Rather, Unitil should be held accountable for the defects that I and Dr. Brown, on behalf of the Attorney General, have identified and which have confirmed many of the complaints voiced by municipal and state officials and affected customers at the Public Hearings in Fitchburg and Lunenburg. These findings should reflect:
  - the failure to invest in an Outage Management System;
  - the failure to properly assess and comprehend the scope and scale of the damages incurred in the Winter Storm;
  - the failure to communicate accurately and completely with its customers, particularly,
     its medically challenged customers, and public and municipal officials about the
     nature of the damages and the restoration activities and progress; and
  - the failure to properly plan and acquire sufficient resources in a timely manner for a storm of this scale.

Second, the Department should hold Unitil accountable for these failures in Unitil's next base rate proceeding and impose a penalty on the company's rate of return,

as well consider the option of denying Unitil the ability to reflect a portion of the stormrelated costs in its customer rates, thus shifting a penalty to shareholders.

Third, the Department should require Unitil to submit a revised and improved plan to address the failures identified in this proceeding and follow a step-by-step compliance plan with enforceable milestones and compliance deadlines.

#### Q. DOES THIS COMPLETE YOUR TESTIMONY AT THIS TIME?

A. Yes.